

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0000054519	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/EP2004/004814	International filing date (day/month/year) 06.05.2004	Priority date (day/month/year) 13.05.2003	
International Patent Classification (IPC) or national classification and IPC C14C3/22, C08F283/06			
Applicant BASF AKTIENGESELLSCHAFT			
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 4 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of 2 sheets, as follows:</p> <p><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> <p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>			

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/004814

Box No. I	Basis of the report
<p>1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.</p> <p><input type="checkbox"/> This report is based on translations from the original language into the following language _____ which is the language of a translation furnished for the purposes of:</p> <ul style="list-style-type: none"> <input type="checkbox"/> international search (Rule 12.3 and 23.1(b)) <input type="checkbox"/> publication of the international application (Rule 12.4) <input type="checkbox"/> international preliminary examination (Rule 55.2 and/or 55.3) <p>2. With regard to the elements of the international application, this report is based on (<i>replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report</i>):</p> <p><input type="checkbox"/> the international application as originally filed/furnished <input checked="" type="checkbox"/> the description: pages <u>1-22</u> _____ as originally filed/furnished pages* _____ received by this Authority on _____ pages* _____ received by this Authority on _____ <input checked="" type="checkbox"/> the claims: nos. _____ as originally filed/furnished nos.* _____ as amended (together with any statement) under Article 19 nos.* <u>1-10</u> _____ received by this Authority on <u>13.04.2005 with the letter of 12.04.2005</u> nos.* _____ received by this Authority on _____ <input type="checkbox"/> the drawings: sheets _____ as originally filed/furnished sheets* _____ received by this Authority on _____ sheets* _____ received by this Authority on _____ <input type="checkbox"/> a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing. <p>3. <input type="checkbox"/> The amendments have resulted in the cancellation of:</p> <ul style="list-style-type: none"> <input type="checkbox"/> the description, pages _____ <input type="checkbox"/> the claims, nos. _____ <input type="checkbox"/> the drawings, sheets/figs _____ <input type="checkbox"/> the sequence listing (<i>specify</i>): _____ <input type="checkbox"/> any table(s) related to sequence listing (<i>specify</i>): _____ <p>4. <input type="checkbox"/> This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).</p> <ul style="list-style-type: none"> <input type="checkbox"/> the description, pages _____ <input type="checkbox"/> the claims, nos. _____ <input type="checkbox"/> the drawings, sheets/figs _____ <input type="checkbox"/> the sequence listing (<i>specify</i>): _____ <input type="checkbox"/> any table(s) related to sequence listing (<i>specify</i>): _____ </p>	

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/004814

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims <u>1 - 9</u>	YES
	Claims _____	NO
Inventive step (IS)	Claims <u>1 - 9</u>	YES
	Claims _____	NO
Industrial applicability (IA)	Claims <u>1 - 9</u>	YES
	Claims _____	NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: WO 02/18526 A

D2: DE 26 23 692 A

D3: WO 93/17130 A (cited in the application)

1. Novelty (PCT Article 33(2)) / Inventive Step (PCT Article 33(3))

The subject matter of the current claims **1-9** is novel in comparison with the prior art as cited in the international search report.

None of the documents cited in the international search report discloses the use of graft copolymers containing at least one monoethylenically unsaturated monomer with at least one nitrogenous heterocycle as auxiliary agents in leather production, a method for producing leather using the stated copolymers or leather thus produced.

The subject matter of the current claims **1-9** also

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Box No. V **Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

involves an inventive step, since document D3, which can be regarded as the closest prior art, does not, either alone or in combination with any other document cited in the international search report, contain anything to indicate the claimed method, for the following reasons:

D3 discloses copolymers based on maleic acid anhydride, which are used to grease and fill leather.

The subject matter of claim 1 differs from D1 by virtue of the different copolymer. The technical problem of interest can be considered that of developing an alternative leather filling method. This problem was solved by the use of the stated copolymers, the use of a graft copolymer (see example 1.1 in which P1 is N-vinylpyrrolidone and vinylimidazole-grafted polyethylene glycol and table 1, test 2.1.3) as retanning material leading to leather shoe uppers with good levels of filling, softness, levelness and grain crack resistance.

The prior art does not suggest using the stated graft copolymers in leather production. In D1 and D2 the stated graft polymers are used as greying inhibitors or in colouring agents and therefore the invention is not obvious to a person skilled in the art (PCT Article 33(3)).